

1.0 EXECUTIVE SUMMARY

A 1000-gallon steel underground storage tank (UST) at Building 1102, Hill Air Force Base (HAFB) was removed and replaced with a new 560-gallon double-walled steel UST as part of HAFB effort to update some of its fuel storage facilities. Contaminated soil was observed in the tank pit after the original UST was removed. The contamination was assumed to have come from overfilling the tank. The contaminated soils were removed and confirmation sampling of the soils indicated the soils remaining were uncontaminated. A sample of groundwater that entered the excavation was sampled and did not show contamination. The soil contamination, tank removal, clean-up, and water sample analysis was reported to the Division (formerly Bureau) of Environmental Response and Remediation (DERR). The DERR requested that a shallow groundwater sample be taken from a monitoring well installed down gradient of the excavation. This site characterization was initiated to evaluate the presence of potential petroleum contamination, if any, that may be in the shallow groundwater beneath the site. The site is identified by the Utah Department of Environmental Quality (UDEQ) as leaking underground storage tank site AGVF.

The information and data acquired during this site investigation and characterization indicate that groundwater contamination is not present in the shallow groundwater near the tank pit. A single boring was drilled and sampled and a monitoring well was completed in the boring. Total petroleum hydrocarbon, benzene, ethylbenzene, toluene, and xylenes were not detected in the soil samples at the analytical method detection limit. Total petroleum hydrocarbon, benzene, ethylbenzene, toluene and xylenes were not detected in groundwater from the monitoring well.

Engineering-Science, Inc. was contracted by the Operational Contracting Office, Hill Air Force Base on behalf of Environmental Management Directorate to perform the site characterization. The status of the site is presented below in the format established by Federal rule Title 40 Code of Federal Regulations (40 CFR) Part 280 Subpart F and the UDEQ/HAFB Compliance Agreement.

2.0 INTRODUCTION

This site characterization report describes the results of a petroleum hydrocarbon contamination investigation of an underground storage tank (UST) at Building 1102, Hill Air Force Base (HAFB), Utah. The report has been prepared by Engineering-Science, Inc. (ES) for Environmental Management Directorate (EM), HAFB. The site is identified in the Department of Environmental Response and Remediation (DERR) records as leaking underground storage tank site AFNW. Hereafter, the site will be referred to in this report as site 1102 (AFNW). The report presents the activities and results of the investigation required in Federal rule Title 40 Code of Federal Regulations Part 280 Subpart F (280.62-280.64), State rule R451-202, and the Utah Department of Environmental Quality (UDEQ)/HAFB Compliance Agreement.

The following sections describe the actions taken to comply with the above mention regulations and agreement and the UDEQ Remediation Schedule (RS) issued to HAFB. The report has been outlined to address each concern presented in the compliance agreement and RS. As a result of following the outline format, information is occasionally repeated. Section 1 provides the Executive Summary. Section 2 presents this Introduction. Section 3 discusses the abatement and site check activities. In Section 4, site characterization information is discussed.